



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

67420-3

Date of Issuance:

4/8/15

NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

2K7 Solution

Name and Address of Registrant (include ZIP Code):

Jeff Jones  
Delta Analytical Corporation  
12510 Prosperity Drive, Suite 160  
Silver Spring, MD 20904

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

*Elizabeth H. Watkins for*

John Hebert, Chief  
RMBI, Antimicrobials Division (7510P)

Date:

4/8/15

2. You are required to comply with the data requirements described in the DCI identified below:

a. Bronopol GDCI-216400-1336

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division: [http://www.epa.gov/oppsrrd1/contacts\\_prd.htm](http://www.epa.gov/oppsrrd1/contacts_prd.htm)

3. Make the following label changes before you release the product for shipment:

- Revise the EPA Registration Number to read, "EPA Reg. No. 67420-3."

4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSF:

- Basic CSF dated October 16, 2014

The CSF dated October 16, 2014 for the alternate #1 formulation is not acceptable.

If you have any questions, please contact Terria Northern phone at 703-347-0265, or via email at [northern.terria@epa.gov](mailto:northern.terria@epa.gov).

Enclosure

**ACCEPTED**

04/08/2015

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 67420-3

## 2K7 Solution

2K7 Solution is a liquid microbiocide for use in controlling bacteria and algae found in industrial applications, and as a preservative to inhibit bacterial spoilage during manufacture, distribution, use and storage of industrial, consumer, household and institutional products. Not for the control of algae in the State of California.

**ACTIVE INGREDIENT:**

2-bromo-2-nitropropane-1,3-diol ..... 10.0%

**OTHER INGREDIENTS:** ..... 90.0%**TOTAL** ..... 100.0%

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER**

<b>FIRST AID</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If inhaled</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.	
<b>NOTE TO PHYSICIAN</b> - Probable mucosal damage may contraindicate the use of gastric lavage. Treat according to symptoms (decontamination, vital functions), no known specific antidote.	

OSP MICROCHECK INC  
#1, 1715 - 27 AVENUE NE, CALGARY, AB T2E 7E1 CANADA

**EPA REG. NUMBER 67420-**  
**EPA EST. NUMBER 67420-CN-01**

**NET CONTENTS:**

## **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER.** Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Remove contaminated clothing and wash before re-use.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)** - Applicators and other handlers must wear: Coveralls over long sleeved shirt and long pants, socks and chemical resistant footwear, goggles or face shield, and chemical resistant gloves such as nitrile, butyl, or neoprene rubber or made out of any water-proof material.

**USER SAFETY REQUIREMENTS** - Do not apply this product in a way that will contact workers or other persons. Follow manufacturer's instructions for cleaning / maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Remove lightly contaminated clothing and wash separately from other laundry using detergent and hot water before re-use.

**USER SAFETY RECOMMENDATIONS** - Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of waste.

### **DIRECTIONS FOR USE**

**It is a violation of federal law to use this product in a manner inconsistent with its labeling.**

**GENERAL USE DIRECTIONS** - Use to control the growth of slime-forming, spoilage, odor-causing and corrosion-inducing bacteria and algae in industrial applications. 2K7 Solution can be dosed directly, or by preparing a stock solution immediately prior to application, either by open pouring (not cooling water treatment) or by metered pump. For process application treatments, 2K7 Solution may be slug dosed initially when the system is noticeably fouled, and reduced to a maintenance dose once microbial control is evident. For some applications, treatment may be by slug dose only, or by maintenance dose only. More frequent and higher dosing should be used where contamination is heavy. The recommended dosing regimens (slug/maintenance dose) and the dose rates are as indicated in the individual use area instructions. For preservation during the manufacture, distribution, storage, and use of industrial, consumer, household and institutional products, 2K7 Solution is best added at any liquid phase as late as possible during the manufacturing process. Add after any heating stage, or when the product has cooled below 40°C. Ensure good mixing and even distribution throughout the product. Do not apply by open pouring of liquid to cooling water systems; a metering pump delivery system is required for this use and application method.

### **INDUSTRIAL RECIRCULATING COOLING WATER**

For use in recirculating cooling towers (not once-through), evaporative condensers, open and closed loop cooling and stored (non-potable) water, industrial and/or commercial air washers, air conditioning and humidifying systems. 2K7 Solution will reduce the biofouling of pipework, heat exchanges, and condenser tubes and minimize microbial corrosion. Apply 2K7 Solution once weekly to once monthly depending on the severity of the contamination. Shock dose 2K7 Solution at 250 to 1000 ppm or (2 to 8 pt. /1000 gallons). Subsequent dosing can be reduced to 100 ppm. Do not apply by open pouring of liquid to cooling towers and evaporative condensers.

### **OIL PROCESS WATERS**

For use in oil and gas well injection and formation waters. 2K7 Solution should be injected at any convenient point at 250-1000 ppm (2 to 8 pt. /1000 gallons) from once per week to once per month depending on the severity of contamination.

### **OIL AND GAS FLUIDS**

For preservative use in both terrestrial and offshore drilling muds and packer fluids to control contamination and degradation of a wide range of gels and fluids including fracturing, enhanced oil recovery, injection, drilling, waterflood, workover, well squeezes and completion fluids. Add 2K7 Solution at 500 to 1000 ppm (4 to 8 pt. /100 gallons or 0.18 to 0.36 pt. /barrel). For well squeeze fluids, add 2K7 Solution at 250 to 2000 ppm (2 to 16 pt. /barrel).

### **OIL AND GAS PIPELINE AND TANK MAINTENANCE**

For use in water bottoms in crude and refined hydrocarbon storage tanks, piping and transportation systems. Inject 2K7 Solution directly into the water bottom or pipeline, or add to the hydrocarbon phase. Treat once daily for pipeline maintenance to once every one or two months for both storage and transportation systems. 2K7 Solution should be applied to achieve 250 to 2000 ppm in the aqueous phase. Add higher concentrations to the hydrocarbon phase, which will result in longer term protection by gradual diffusion into the water phase. Dose will depend on the volume of crude or oil and the expected water fraction.

### **PAPER MILL PROCESS WATER**

Apply at a convenient point early in the process system (machine chest, constant head box or backwater loop system). Dose 2K7 Solution once to three times daily at 10 to 250 ppm in the process water. This equates to 100 to 2500 ml (0.2 to 5 pt.) per tonne of finished paper or paperboard.

### **PAPER MILLS – BULK PAPER**

Add 2K7 Solution directly into the hydropulper, machine chest or stock chest. Apply once weekly to once daily at 500 to 2000 ppm (500 to 2000 ml per tonne of stock or 4 to 16 pt. /1000 gallons).

### **WATER BASED PRINTING INKS AND FOUNTAIN SOLUTIONS**

During the use of fountain solutions, shock dose 2K7 Solution at 500 to 1000 ppm (4 to 8 pt. /1000 gallons) depending on the contamination. Apply once weekly in the fount reservoir as a normal routine or more frequently if required. For In-can preservation dose 2K7 Solution at 1000 to 5000 ppm based on the final formulation volume (8 to 40 pt. /1000 gallons).

### **STARCH, PIGMENT AND MINERAL SLURRIES**

For preservation, apply 2K7 Solution to water based suspensions at 1000 to 5000 ppm based on the final formulation (8 to 40 pt. /1000 gallons). Not for use in pigments in the State of California.

### **CHEMICAL TOILET DEODORANTS**

To effectively control odor in a portable toilet, use 1000 to 5000 ppm (8 to 40 pt. /1000 gallons).

## **PAINTS AND OTHER EMULSION SYSTEMS**

For the preservation of acrylic, styrene-acrylic, polyvinyl acetate and other latex emulsions, latex emulsion based paints, photographic emulsions, silicone and other antifoam emulsion systems. Add 2K7 Solution at 1000 to 5000 ppm based on the final formulation volume (8 to 40 pt. /1000 gallons).

## **METAL WORKING FLUIDS**

For use in soluble oils, semi-synthetic and synthetic fluids. Add directly to the sump (with agitation) and allow too circulate for about one hour before shutdown. 2K7 Solution may be incorporated in metalworking fluid concentrate by the manufacturer who should ensure that any incompatibility will not affect efficacy. In diluted fluids, add 1000 to 10000 ppm of 2K7 Solution (8 to 80 pt. /1000 gallons).

## **ADHESIVES**

For preservation, add 1 to 5 pt. of 2K7 Solution per 100 pounds total formulation weight.

## **ABSORBENT CLAYS**

For preservation, impregnate absorbent clays, corn cobs and ground wood by spraying or pouring 250 to 2000 ppm of 2K7 Solution (0.4 to 3.2 oz. av. per 100 pounds of clay).

## **WATER BASED AGRICULTURAL PESTICIDE CONCENTRATES**

**Do not use for applications involving direct or indirect food or drinking water contact.**

For preservation, 2K7 Solution should be dosed at 1000 to 5000 ppm based on the final formulation volume (8 to 40 pt. /1000 gallons).

## **CONSUMER, HOUSEHOLD AND INSTITUTIONAL PRODUCTS; SURFACTANTS AND RAW MATERIALS**

**Do not use for applications involving direct or indirect food or drinking water contact.**

For preservation of products such as dishwashing liquids, surface cleaners, polishes; bulk ionic, nonionic, amphoteric and cationic surfactants and raw materials supplied for the manufacture of industrial and consumer products, 2K7 Solution should be dosed at 1000 to 5000 ppm based on the final formulation volume (8 to 40 pt. /1000 gallons).

## **STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Keep away from heat. Store in a cool dry place in tightly closed original container.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Offer container for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill.

## **CONDITIONS OF SALE AND WARRANTY**

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labelling, all of which are beyond the control of the Seller. All such risks shall be assumed by the Buyer. The manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to above. THE MANUFACTURER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL THE MANUFACTURER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. The manufacturer offers this product, and the Buyer and User accept it, subject to the foregoing Conditions of Sale and Warranty which may be varied only by agreement in writing signed by a duly authorized representative.